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(54) Title: **FLAVIVIRUS REPLICON PACKAGING SYSTEM**

(57) Abstract: A tetracycline regulatable flaviviral packaging system is provided that facilitates expression of flaviviral structural proteins necessary for flaviviral RNA replicon packaging and virus like particle production in animal cells. This regulatable packaging system is compatible with Kunjin, Dengue and West Nile virus and other flaviviral replicon-based expression systems and produces unexpectedly high titres of virus-like particles. A particular application of this packaging system is the production of virus-like particles that package RNA comprising a flaviviral replicon and encoding a heterologous protein or peptide for expression in animal cells. Even more particularly, the packaging system is capable of delivering immunogens that induce a protective CD8 T cell-mediated immune response.

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